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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/900,288	-	07/06/2001	Paul F. Goetinck	10284-029001 / MGH 6095 1733.1		
26161	7590	02/25/2004		EXAMINER		
FISH & RI 225 FRANK		SON PC	YAEN, CHRISTOPHER H			
BOSTON, MA 02110				ART UNIT	PAPER NUMBER	
				1642		
				DATE MAILED: 02/25/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/900,288	GOETINCK, PAUL F.9			
	Office Action Summary	Examiner	Art Unit			
		Christopher H Yaen	1642			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SH THE - Exter after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) 🏹	Responsive to communication(s) filed on 26 No.	ovember 2003.				
		action is non-final.				
'=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1,7-11 and 17-19 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1,7-11 and 17-19 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers					
10) 🗌	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the conference of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Example 1.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreign and All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureausee the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment	t(s)					
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

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DETAILED ACTION

1. The amendment filed 11/26/2003 is acknowledged and entered into the record.

Accordingly, claims 2-6, and 12-16 are canceled without prejudice or disclaimer.

2. Claims 1, 7-11, and 17-19 are pending and examined on the merits.

Claim Rejections Maintained - 35 USC § 112, 1st paragraph

3. The rejection of claims 1, 7-11, and 17-19 under 35 USC 112, 1st paragraph as lacking an enabling disclosure is maintained for the reasons of record. Applicant argues that the instant disclosure provides "proof in vivo that reducing syndecan-4 inhibits angiogenesis", and the references cited to show unpredictability of the animal models is in no way any indication of whether the administration of syndecan-4 reducing agents would not work. It is further stated, by the applicant that the mechanism by which the reducing agents inhibit angiogenesis is irrelevant provided that the administration of the said agents actually inhibits angiogenesis. Applicant's arguments have been carefully considered but are not deemed persuasive. Although it is true that the applicant is claiming a method of inhibiting angiogenesis and that the mechanism by which this occurs is not needed, the specification has not provided the skilled artisan with any information with regard to the actual administration of the said reducing agents. The specification lacks any enabling disclosure with regard to the how theses agents when administered are able to inhibit angiogenesis, and the specification has not provided any nexus between the findings of the knockout mouse and the administration or effects of the said agents. Furthermore, given the unpredictable nature of the phenotypes

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generated from knock-out-mice, one of skill in the art cannot with any certainty practice the invention commensurate in scope with the claims because the specification has not provided any guidance in the form of working examples for the actual administration of the said agents.

In addition, applicant argues that Kerbel et al provides support with regard to the use of angiogenesis inhibitors and further states that "some drugs...can induce stable disease", and that the such stable disease is a desirable outcome of anti-angiogenesis treatment. Although it is true that reduction of tumor spreading, by preventing angiogenic vessel formation, is considered a success outcome of anti-angiogenesis treatment, the specification has not actually taught how such treatments with the syndecan-4 reducing agents is to be accomplished or whether such agents fall within the drugs that work and those that do not work. Kerbel et al points out that others have found that the use of anti-angiogenesis drugs actually increased blood flow to the tumor (see page 730). There is no indication that the administration of the syndecan-4 reducing agents claimed would not have such an effect, because no disclosure or working examples which addresses this question have been put forward for the skilled artisan to determine, thereby resulting in undue experimentation. Further, Kerbel et al points out that although there are many promising outcomes associated with the use of anti-angiogenic drugs, more understanding of the complex mechanism of blood vessel formation and the need for adequate markers for the determination of efficacy are still required before there is successful treatment of tumors with anti-angiogenic therapies.

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Therefore, given the lack of disclosure with regard to the use of syndecan-4 reducing agents, the lack of correlation between the findings in the mouse model and the actual use of the reducing agents, and the unpredicatable use of anti-angiogenesis agents in general

Conclusion

- 4. No claim is allowed.
- 5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher H Yaen whose telephone number is 571-272-0838. The examiner can normally be reached on Monday-Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Yaen Art Unit 1642 February 10, 2004